SK

PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/831,272**

DATE: 09/05/2001
TIME: 13:32:16

Input Set : **A:\ES.txt**
Output Set: **N:\CRF3\09052001\I831272.raw**

```
 3 <110> APPLICANT: Christoph, KIRSCH et al
 5 <120> TITLE OF INVENTION: CHIMERIC PROMOTERS CAPABLE OF MEDIATING GENE EXPRESSION IN
PLANTS UPON
 6        PATHOGEN INFECTION AND USES THEREOF
 8 <130> FILE REFERENCE: 0147-0224P
10 <140> CURRENT APPLICATION NUMBER: US 09/831,272
11 <141> CURRENT FILING DATE: 2001-05-09
13 <160> NUMBER OF SEQ ID NOS: 36
15 <170> SOFTWARE: PatentIn version 3.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 7
19 <212> TYPE: DNA
20 <213> ORGANISM: Petroselinum crispum
22 <400> SEQUENCE: 1
23 tttgacc                                                         7
26 <210> SEQ ID NO: 2
27 <211> LENGTH: 30
28 <212> TYPE: DNA
29 <213> ORGANISM: Petroselinum crispum
31 <400> SEQUENCE: 2
32 cacacttaat ttgaccgagt aacattcgcc                                30
35 <210> SEQ ID NO: 3
36 <211> LENGTH: 20
37 <212> TYPE: DNA
38 <213> ORGANISM: Petroselinum crispum
40 <220> FEATURE:
41 <221> NAME/KEY: Unsure
42 <222> LOCATION: (8)..(14)  OK
43 <223> OTHER INFORMATION: n=a,c,g,t,any unknown or other
45 <400> SEQUENCE: 3
```

W--> `46 ttcagccnnn nnnnttgacc`   **20**

```
49 <210> SEQ ID NO: 4
50 <211> LENGTH: 29
51 <212> TYPE: DNA
52 <213> ORGANISM: Petroselinum crispum
54 <400> SEQUENCE: 4
55 ttattcagcc atcaaagttg accaataat                                 29
58 <210> SEQ ID NO: 5
59 <211> LENGTH: 14
60 <212> TYPE: DNA
61 <213> ORGANISM: Triticum aestivum
63 <220> FEATURE:
64 <221> NAME/KEY: Unsure
65 <222> LOCATION: (5)..(10)
66 <223> OTHER INFORMATION: n=a,c,g,t,any unknown or other
68 <400> SEQUENCE: 5
```

W--> `69 tgacnnnnnn gtca`   **14**

```
72 <210> SEQ ID NO: 6
```

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/831,272**

DATE: 09/05/2001
TIME: 13:32:16

Input Set : **A:\ES.txt**
Output Set: **N:\CRF3\09052001\I831272.raw**

```
 73 <211> LENGTH: 14
 74 <212> TYPE: DNA
 75 <213> ORGANISM: Triticum aestivum
 77 <400> SEQUENCE: 6
 78 tgacttgacc gtca                                        14
 81 <210> SEQ ID NO: 7
 82 <211> LENGTH: 24
 83 <212> TYPE: DNA
 84 <213> ORGANISM: Petroselinum crispum
 86 <400> SEQUENCE: 7
 87 cagccaccaa agaggaccca gaat                             24
 90 <210> SEQ ID NO: 8
 91 <211> LENGTH: 16
 92 <212> TYPE: DNA
 93 <213> ORGANISM: Solanum tuberosum
 95 <220> FEATURE:
 96 <221> NAME/KEY: Unsure
 97 <222> LOCATION: (7)..(9)
 98 <223> OTHER INFORMATION: n=a,c,g,t,any unknown or other
100 <400> SEQUENCE: 8
101 gccaccnnnt ttgacc                                      16
104 <210> SEQ ID NO: 9
105 <211> LENGTH: 25
106 <212> TYPE: DNA
107 <213> ORGANISM: Solanum tuberosum
109 <400> SEQUENCE: 9
110 ttctagccac cagatttgac caaac                            25
113 <210> SEQ ID NO: 10
114 <211> LENGTH: 24
115 <212> TYPE: DNA
116 <213> ORGANISM: Triticum aestivum
118 <400> SEQUENCE: 10
119 ggattgactt gaccgtcatc ggct                             24
122 <210> SEQ ID NO: 11
123 <211> LENGTH: 31
124 <212> TYPE: DNA
125 <213> ORGANISM: Petroselinum crispum
127 <400> SEQUENCE: 11
128 tacaattcaa acattgttca aacaaggaac c                     31
131 <210> SEQ ID NO: 12
132 <211> LENGTH: 15
133 <212> TYPE: DNA
134 <213> ORGANISM: Petroselinum crispum
136 <400> SEQUENCE: 12
137 agttgaaatt caata                                       15
140 <210> SEQ ID NO: 13
141 <211> LENGTH: 30
142 <212> TYPE: DNA
143 <213> ORGANISM: Petroselinum crispum
```

W--> 101 gccaccnnnt ttgacc

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/831,272**

DATE: 09/05/2001
TIME: 13:32:16

Input Set : **A:\ES.txt**
Output Set: **N:\CRF3\09052001\I831272.raw**

```
145 <400> SEQUENCE: 13
146 agttgaaatt caataagttg aaattcaata
149 <210> SEQ ID NO: 14                                               30
150 <211> LENGTH: 10
151 <212> TYPE: DNA
152 <213> ORGANISM: Petroselinum crispum
154 <220> FEATURE:
155 <221> NAME/KEY: Unsure
156 <222> LOCATION: (9)..(9)
157 <223> OTHER INFORMATION: n=a,c,g,t,any unknown or other
159 <400> SEQUENCE: 14
```
W--> `160 agccaccana`
```
163 <210> SEQ ID NO: 15                                               10
164 <211> LENGTH: 27
165 <212> TYPE: DNA
166 <213> ORGANISM: Petroselinum crispum
168 <400> SEQUENCE: 15
169 tcaatatgtc aatggtcaac attcaac
172 <210> SEQ ID NO: 16                                               27
173 <211> LENGTH: 21
174 <212> TYPE: DNA
175 <213> ORGANISM: Petroselinum crispum
177 <400> SEQUENCE: 16
178 tgtcaatggt caacattcaa c
181 <210> SEQ ID NO: 17                                               21
182 <211> LENGTH: 4299
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic, n
188       natural origin
190 <400> SEQUENCE: 17
191 aggtggcact tttcggggaa atgtgcgcgg aacccctatt tgtttatttt tctaaataca 60
192 ttcaaatatg tatccgctca tgagacaata accctgataa atgcttcaat aatattgaaa 120
193 aaggaagagt atgagtattc aacatttccg tgtcgccctt attccttttt ttgcggcatt 180
194 ttgccttcct gttttttgctc acccagaaac gctggtgaaa gtaaaagatg ctgaagatca 240
195 gttgggtgca cgagtgggtt acatcgaact ggatctcaac agcggtaaga tccttgagag 300
196 ttttcgcccc gaagaacgtt ttccaatgat gagcactttt aaagttctgc tatgtggcgc 360
197 ggtattatcc cgtattgacg ccgggcaaga gcaactcggt cgccgcatac actattctca 420
198 gaatgacttg gttgagtact caccagtcac agaaaagcat cttacggatg gcatgacagt 480
199 aagagaatta tgcagtgctg ccataaccat gagtgataac actgcggcca acttacttct 540
200 gacaacgatc ggaggaccga aggagctaac cgcttttttg cacaacatgg gggatcatgt 600
201 aactcgcctt gatcgttggg aaccggagct gaatgaagcc ataccaaacg acgagcgtga 660
202 caccacgatg cctgtagcaa tggcaacaac gttgcgcaaa ctattaactg gcgaactact 720
203 tactctagct tcccggcaac aattaataga ctggatggag gcggataaag ttgcaggacc 780
204 acttctgcgc tcggcccttc cggctggctg gtttattgct gataaatctg gagccggtga 840
205 gcgtgggtct cgcggtatca ttgcagcact ggggccagat ggtaagccct cccgtatcgt 900
206 agttatctac acgacgggga gtcaggcaac tatggatgaa cgaaatagac agatcgctga 960
207 gataggtgcc tcactgatta agcattggta actgtcagac caagtttact catatatact 1020
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/831,272

DATE: 09/05/2001
TIME: 13:32:16

Input Set : A:\ES.txt
Output Set: N:\CRF3\09052001\I831272.raw

```
208 ttagattgat ttaaaacttc attttttaatt taaaaggatc taggtgaaga tcctttttga 1080
209 taatctcatg accaaaatcc cttaacgtga gttttcgttc cactgagcgt cagaccccgt 1140
210 agaaaagatc aaaggatctt cttgagatcc ttttttttctg cgcgtaatct gctgcttgca 1200
211 aacaaaaaaa ccaccgctac cagcggtggt ttgtttgccg gatcaagagc taccaactct 1260
212 ttttccgaag gtaactggct tcagcagagc gcagatacca aatactgtcc ttctagtgta 1320
213 gccgtagtta ggccaccact tcaagaactc tgtagcaccg cctacatacc tcgctctgct 1380
214 aatcctgtta ccagtggctg ctgccagtgg cgataagtcg tgtcttaccg ggttggactc 1440
215 aagacgatag ttaccggata aggcgcagcg gtcgggctga acggggggtt cgtgcacaca 1500
216 gcccagcttg gagcgaacga cctacaccga actgagatac ctacagcgtg agcattgaga 1560
217 aagcgccacg cttcccgaag ggagaaaggc ggacaggtat ccggtaagcg gcagggtcgg 1620
218 aacaggagag cgcacgaggg agcttccagg gggaaacgcc tggtatcttt atagtcctgt 1680
219 cgggtttcgc cacctctgac ttgagcgtcg attttttgtga tgctcgtcag ggggcgcggag 1740
220 cctatggaaa aacgccagca acgcggcctt tttacggttc ctggcctttt gctggccttt 1800
221 tgctcacatg ttctttcctg cgttatcccc tgattctgtg gataaccgta ttaccgcctt 1860
222 tgagtgagct gataccgctc gccgcagccg aacgaccgag cgcagcgagt cagtgagcga 1920
223 ggaagcggaa gagcgcccaa tacgcaaacc gcctctcccc gcgcgttggc cgattcatta 1980
224 atgcagcgga tcaagcttgg atccatcgat gaattcggcg cgccactagt gccggcctgc 2040
225 agtctagagt cgaccgcaag acccttcctc tatataagga agttcatttc atttggagag 2100
226 gacacgctcg agtggccacc atggtccgtc ctgtagaaac cccaacccgt gaaatcaaaa 2160
227 aactcgacgg cctgtgggca ttcagtctgg atcgcgaaaa ctgtggaatt gatcagcgtt 2220
228 ggtgggaaag cgcgttacaa gaaagccggg caattgctgt gccaggcagt tttaacgatc 2280
229 agttcgccga tgcagatatt cgtaattatg cgggcaacgt ctggtatcag cgcgaagtct 2340
230 ttataccgaa aggttgggca ggccagcgta tcgtgctgcg tttcgatgcg gtcactcatt 2400
231 acggcaaagt gtgggtcaat aatcaggaag tgatggagca tcagggcggc tatacgccat 2460
232 ttgaagccga tgtcacgccg tatgttattg ccgggaaaag tgtacgtatc accgtttgtg 2520
233 tgaacaacga actgaactgg cagactatcc cgccgggaat ggtgattacc gacgaaaacg 2580
234 gcaagaaaaa gcagtcttac ttccatgatt tctttaacta tgccggaatc catcgcagcg 2640
235 taatgctcta caccacgccg aacacctggg tggacgatat caccgtggtg acgcatgtcg 2700
236 cgcaagactg taaccacgcg tctgttgact ggcaggtggt ggccaatggt gatgtcagcg 2760
237 ttgaactgcg tgatgcggat caacaggtgg ttgcaactgg acaaggcact agcgggactt 2820
238 tgcaagtggt gaatccgcac ctctggcaac cgggtgaagg ttatctctat gaactgtgcg 2880
239 tcacagccaa aagccagaca gagtgtgata tctacccgct tcgcgtcggc atccggtcag 2940
240 tggcagtgaa gggcgaacag ttcctgatta accacaaacc gttctacttt actggctttg 3000
241 gtcgtcatga agatgcggac ttgcgtggca aaggattcga taacgtgctg atggtgcacg 3060
242 accacgcatt aatggactgg attggggcca actcctaccg tacctcgcat tacccttacg 3120
243 ctgaagagat gctcgactgg gcagatgaac atggcatcgt ggtgattgat gaaactgctg 3180
244 ctgtcggctt taacctctct ttaggcattg gtttcgaagc gggcaacaag ccgaaagaac 3240
245 tgtacagcga agaggcagtc aacggggaaa ctcagcaagc gcacttacag gcgattaaag 3300
246 agctgatagc gcgtgacaaa aaccacccaa gcgtggtgat gtggagtatt gccaacgaac 3360
247 cggatacccg tccgcaaggt gcacgggaat atttcgcgcc actggcggaa gcaacgcgta 3420
248 aactcgaccc gacgcgtccg atcacctgcg tcaatgtaat gttctgcgac gctcacaccg 3480
249 ataccatcag cgatctcttt gatgtgctgt gcctgaaccg ttattacgga tggtatgtcc 3540
250 aaagcggcga tttggaaacg gcagagaagg tactggaaaa agaacttctg gcctggcagg 3600
251 agaaactgca tcagccgatt atcatcaccg aatacggcgt ggatacgtta gccgggctgc 3660
252 actcaatgta caccgacatg tggagtgaag agtatcagtg tgcatggctg gatatgtatc 3720
253 accgcgtctt tgatcgcgtc agcgccgtcg tcggtgaaca ggtatggaat ttcgccgatt 3780
254 ttgcgacctc gcaaggcata ttgcgcgttg gcggtaacaa gaaagggatc ttcactcgcg 3840
255 accgcaaacc gaagtcggcg ctttttctgc tgcaaaaacg ctggactggc atgaacttcg 3900
256 gtgaaaaacc gcagcaggga ggcaaacaat gaatcaacaa ctctcctggc gcaccatcgt 3960
```

```
257 cgctacagcc tcgggaattg ctaccgagct cccgggtacc tgatcatgag taattagctc 4020
258 gaatttcccc gatcgttcaa acatttggca ataaagtttc ttaagattga atcctgttgc 4080
259 cggtcttgcg atgattatca tataatttct gttgaattac gttaagcatg taataattaa 4140
260 catgtaatgc atgacgttat ttatgagatg ggtttttatg attagagtcc cgcaattata 4200
261 catttaatac gcgatagaaa acaaaatata gcgcgcaaac taggataaat tatcgcgcgc 4260
262 ggtgtcatct atgttactag atcgggaatt agatctgct                        4299
266 <210> SEQ ID NO: 18
267 <211> LENGTH: 37
268 <212> TYPE: DNA
269 <213> ORGANISM: Artificial Sequence Sequence                OK
271 <220> FEATURE:
272 <223> OTHER INFORMATION: derived from Solanum tuberosum
274 <400> SEQUENCE: 18
275 actagtttct agccaccaga tttgaccaaa ctctaga                              37
278 <210> SEQ ID NO: 19
279 <211> LENGTH: 36
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial Sequence Sequence              OK
283 <220> FEATURE:
284 <223> OTHER INFORMATION: derived from Petroselinum crispum
286 <400> SEQUENCE: 19
287 actagtcagc caccaaagag gacccagaat tctaga                               36
290 <210> SEQ ID NO: 20
291 <211> LENGTH: 43
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence Sequence              OK
295 <220> FEATURE:
296 <223> OTHER INFORMATION: derived from Petroselinum crispum
298 <400> SEQUENCE: 20
299 actagttaca attcaaacat tgttcaaaca aggaacctct aga                       43
302 <210> SEQ ID NO: 21
303 <211> LENGTH: 42
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence Sequence              OK
307 <220> FEATURE:
308 <223> OTHER INFORMATION: derived from Petroselinum crispum
310 <400> SEQUENCE: 21
311 actagtagtt gaaattcaat aagttgaaat tcaatatcta ga                        42
314 <210> SEQ ID NO: 22
315 <211> LENGTH: 42
316 <212> TYPE: DNA
317 <213> ORGANISM: Artificial Sequence Sequence              OK
319 <220> FEATURE:
320 <223> OTHER INFORMATION: derived from Petroselinum crispum
322 <400> SEQUENCE: 22
323 actagtcaca cttaatttga ccgagtaaca ttcgcctcta ga                        42
326 <210> SEQ ID NO: 23
327 <211> LENGTH: 41
328 <212> TYPE: DNA
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/831,272**

DATE: 09/05/2001
TIME: 13:32:17

Input Set : **A:\ES.txt**
Output Set: **N:\CRF3\09052001\I831272.raw**

```
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:69 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
```